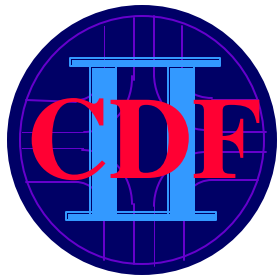


Detector Operations

Eric James

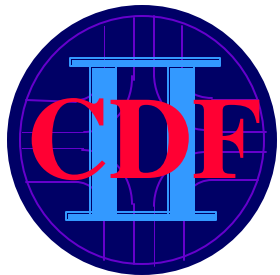
August 15, 2002

CDF Weekly Meeting



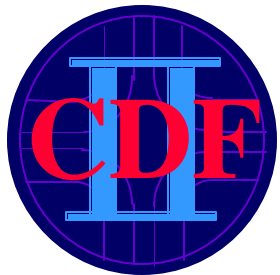
COT

- COT SL2 unable to hold high voltage at start of Store #1657 (Sunday 8/11).
- COT experts isolated the problem to the HV supply for Sense Wire 5 in Quadrant C (180->270deg).
- No smoking gun was found during a 24 hour supervised access (Sunday-Monday).



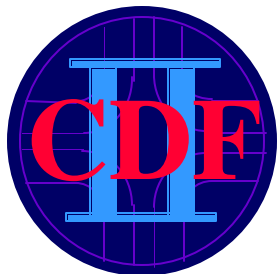
COT

- On Tuesday, COT experts were able to construct a stable running configuration with Sense Wires 4-7 disabled for all cells in quadrant C (48 cells x 4 wires).
- This granularity is primarily imposed by a limitation of the HV daughter-boards ($dV < 125V$ for neighboring channels).

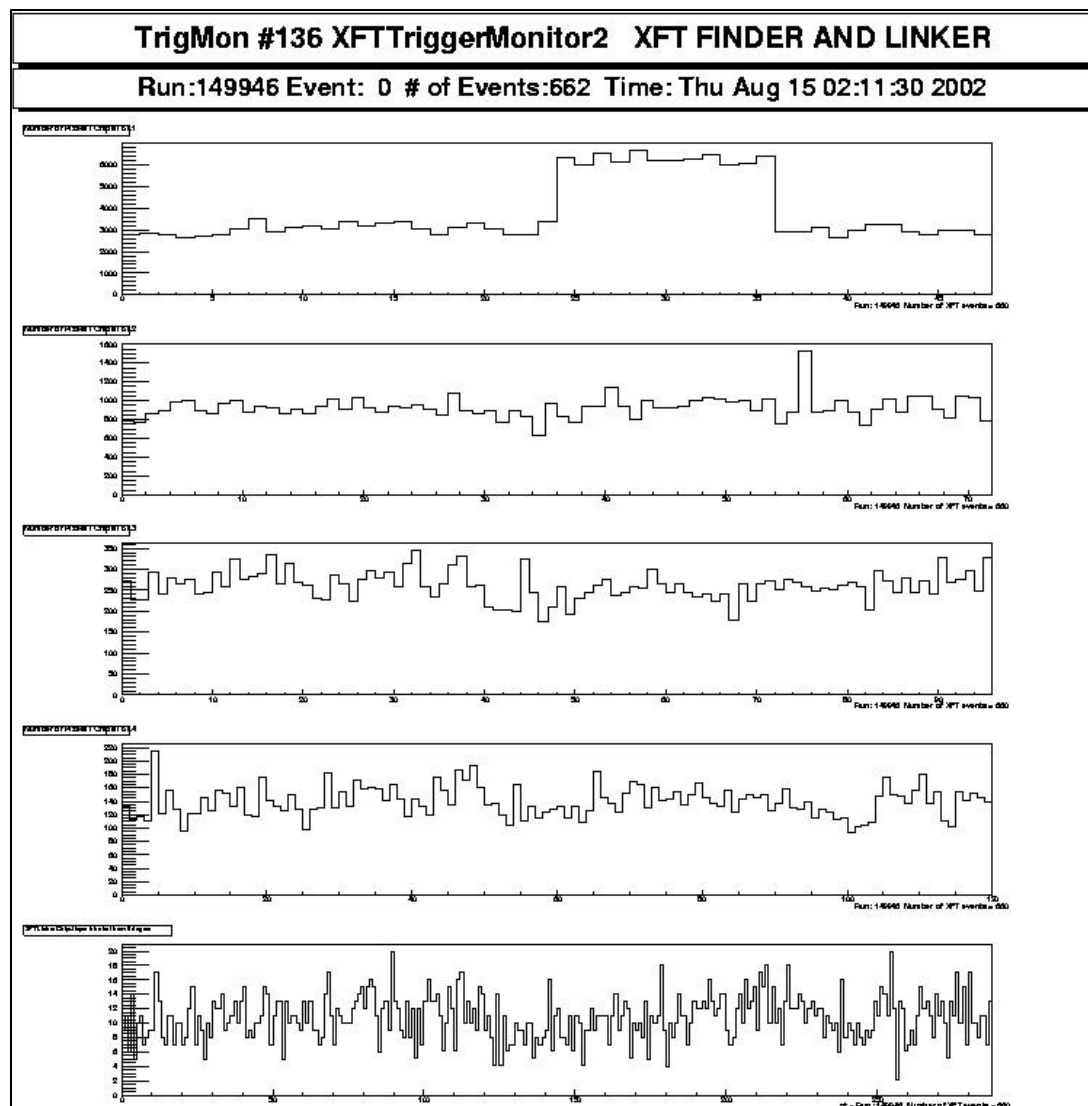


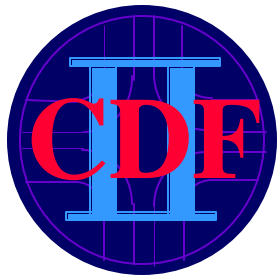
COT

- On Wednesday morning, the XFT people loaded constants to mask on these 192 wires in the trigger.
- Trigger performance looks to be relatively unaffected.
- Initial conclusion seems to be that we can take quality data in this configuration.



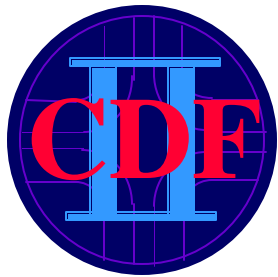
XFT Performance



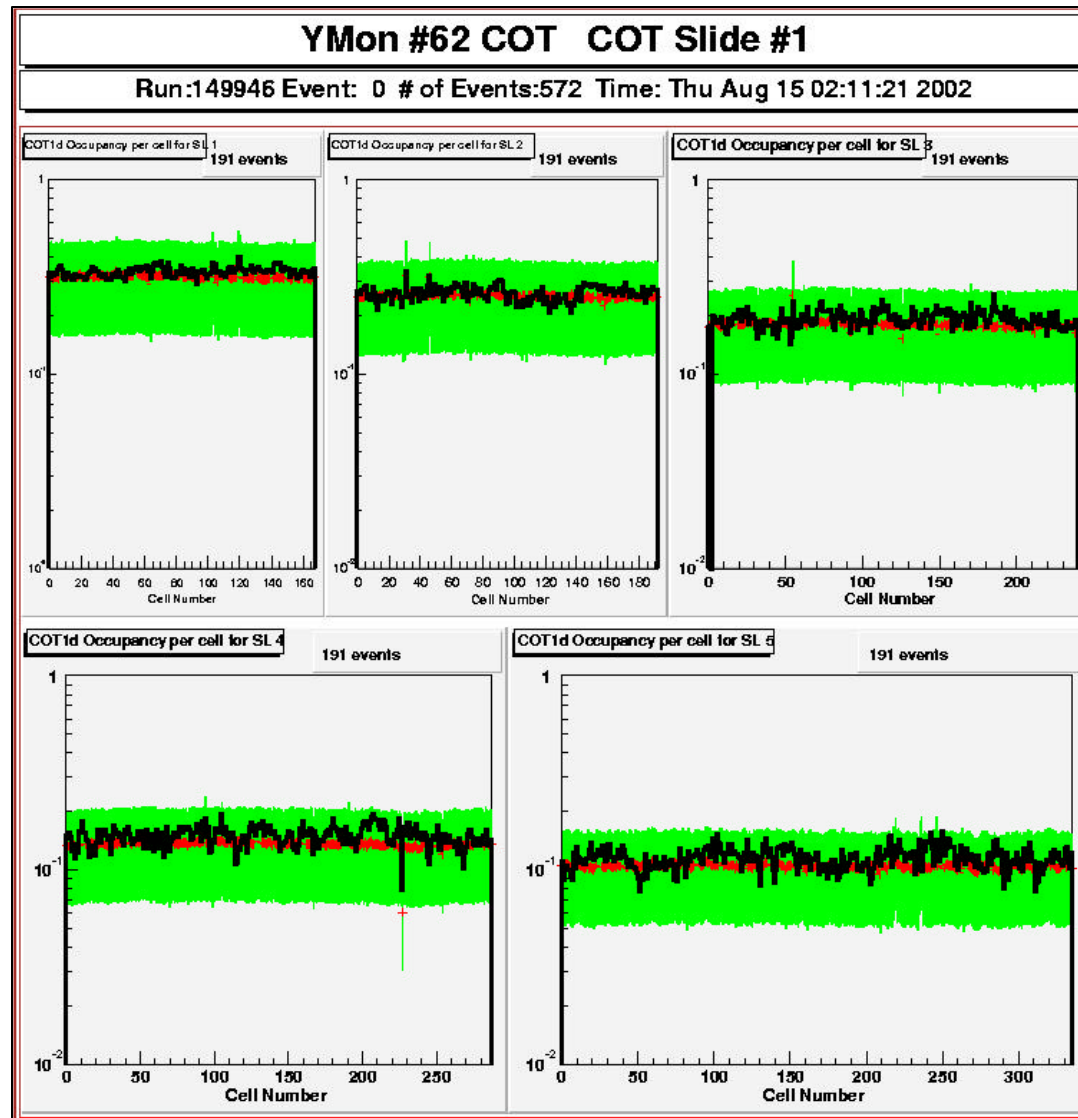


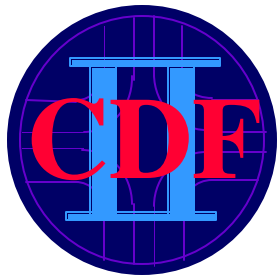
In the meantime ...

- During plug move-in at end of supervised access, one COT cable came loose at the repeater card (24 channels on SL3).
- Also, shortly after access TDC in crate 6, slot 9 died (96 channels on SL4).
- Both of these issues were solved during a one hour controlled access last night.



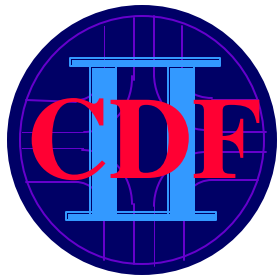
Present COT Status





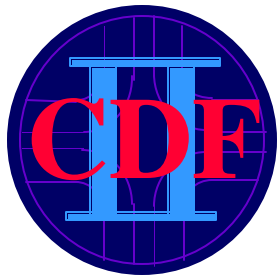
In the meantime (2)...

- Bob Wagner et al ... have narrowed the problem to Sense Wire 5 in either Cell 109 or Cell 110.
- Expect that further data analysis will identify the specific wire.
- Have requested another supervised access for early next week to disable problem wire.



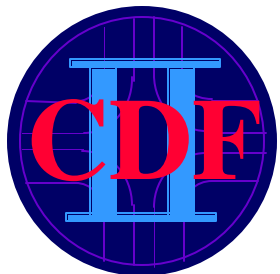
Additional Detector Work

- **Silicon**
 - Recovered 2 ISL and 2 SVX ladders.
 - 65/72 SVX+SVT wedges operational.
 - Diagnostic work on bad wedges.
- **Calorimeter**
 - Replaced CAFÉ card for Plug East Wedge 2, Tower 5.
 - Replaced SMXR card in CCAL01, Slot 5.
 - Replaced 2 Hadron ASD boards in WHA East.



Additional Detector Work

- Muon
 - Recovered 3 CMP channels on South Wall.
 - Fixed HV problem for CMX East Wedges 22 and 23.
- Etc ...
 - Replaced mini-plug transition board
 - Installed cables for east plug laser
 - Shielding Measurements



Store Summary

Store	Date	Initial Luminosity	Comments
1654	F August 9	13.5 e30	High Losses at start of store
1656	Sa August 10	13.5 e30	Ends with quench at A4
1657	Su August 11	18.5 e30	COT down (no good runs)
1661	T August 13	24.0 e30	COT down (no good runs)
1663	R August 15	20.5 e30	Early Quench (no good runs)